

REMARKS

The present application relates to inbred maize line PH6WG. Claims 1-30 are pending in the present application. No new matter has been added by way of amendment. Applicants respectfully request consideration of the claims in view of the following remarks.

Request for Information under 37 C.F.R. § 1.105

The Examiner has made a Request for Information under 37 C.F.R. § 1.105. The Examiner states the requested information is "required to make a meaningful and complete search of the prior art". See Office Action, p. 4.

Applicants provide answers to each of the Examiner's interrogatories discussed *infra*.

The Examiner begins by asking firstly, what were the original parental maize lines used to produce maize inbred line PH6WG? Please supply information pertaining to the lineage of the original parental lines back to any publicly available varieties. PH05W and PH07D. Information pertaining to the lineage of the original parental lines is available within the PVP Application No. 200100245, attached as Appendix 1.

Secondly, what method and steps were used to produce maize inbred line PH6WG? Pedigree selection method produced by selfing for 6 generations.

Third, have any of said parental maize lines or progeny therefrom been disclosed or made publicly available?

a. The parental maize line PH05W was previously publicly disclosed or made publicly available in PVP Certificate No. 9700212 and U.S. Patent No. 5,750,849. The parental maize line PH07D was previously publicly disclosed or made publicly available in PVP Certificate No. 9700214 and U.S. Patent No. 5,763,757.

b. No other progeny of the parental cross PH05W/PH07D was previously publicly disclosed or made publicly available by Applicants prior to the earliest priority date.

Fourth, were any other maize lines produced by said method using said original parental maize lines, and if so, have said produced maize lines been publicly available or sold? If so, under what designation/denomination and under what conditions were said other maize lines disclosed or made publicly available? No maize line using the same F1 cross has been produced by said method using said original parental maize lines at or before the time of filing of the

instant application. Further, no maize line using the same F1 cross has been *previously* disclosed or made publicly available prior to the earliest priority date.

In light of the above remarks, Applicants respectfully request reconsideration and compliance with the interrogatories under the Request for Information under 37 C.F.R. § 1.105.

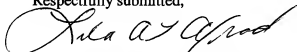
Conclusion

In conclusion, Applicants submit in light of the above amendments and remarks, the claims as amended are in a condition for allowance, and reconsideration is respectfully requested. If it is felt that it would aid in prosecution, the Examiner is invited to contact the undersigned at the number indicated to discuss any outstanding issues.

No other fees or extensions of time are believed to be due in connection with this amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Reconsideration and allowance is respectfully requested.

Respectfully submitted,



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Des Moines, Iowa 50309-2721
Phone No: (515) 288-3667
Fax No: (515) 288-1338
CUSTOMER NO: 27142
Attorneys of Record

- LATA/bjh -

No.

200700245

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Whereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREBY ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THEREOF IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW. NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC KUPLENISMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SEEDING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONVEYING IT FOR PROPAGATION, OR STORING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN THE MAKING OF A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (94 STAT. 1543, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PH6WG'

In Testimony Whereof, I have herunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty third day of May, in the year two thousand three.

Attest:

George

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Chen

Attorney

REPRODUCE LOCALLY. (Include form number and date on all reproductions.)

FORM APPROVED - OMS NO. 6581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1982.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2427). Information is held confidential until certificate is issued (7 U.S.C. 2429).

1. NAME OF OWNER Pioneer Hi-Bred International, Inc.		2. VARIETY REGISTRATION OR EXPERIMENTAL NUMBER 515/270-4051		3. VARIETY NAME PE65WG	
4. ADDRESS (Street and No. or R.F.D. No., City, State and Zip Code, and Country) 7301 NW 62nd Avenue P.O. Box 85 Johnston, IA 50131-0085		5. TELEPHONE (Area and code) 515/270-4051		FOR OFFICIAL USE ONLY PVP NUMBER 200100245	
		6. FAX (Include area code) 515/253-2125			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF INCORPORATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION IOWA		9. DATE OF INCORPORATION March 5, 1999	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE TO SERVE IN THIS APPLICATION (FIRST PERSON LISTED WILL RECEIVE ALL PAPERS) Steven R. Anderson Research and Product Development P.O. Box 85 Johnston, IA 50131-0085					
11. TELEPHONE (Include area code) 515/270-4051		12. FAX (Include area code) 515/253-2125		13. E-MAIL ANDERSONS@PHIBRED.COM	
14. GUSIA AND SPECIES NAME OF GRASS Sea Mays		15. FAMILY NAME (Genus) Gramineae		16. CORN	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Please indicate on reverse)					
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Status of the Owner's Ownership f. <input checked="" type="checkbox"/> Waiver Request (must include written consent of the owner, parent(s) and/or other persons who have contributed to the development of the variety and are named in the application) g. <input checked="" type="checkbox"/> Plant Variety Registration Fee (See 7 U.S.C. 2428, made payable to "Treasury of the United States" (Post to Plant Variety Registration Office))					
19. DOES THE VARIETY INCLUDE ANY MATERIAL FROM A HYBRID PRODUCED FROM TWO VARIETY SEEDS, ORIGINALLY, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
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99. DOES THE VARIETY INCLUDE ANY MATERIAL FROM A HYBRID PRODUCED FROM TWO VARIETY SEEDS, ORIGINALLY, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
100. DOES THE VARIETY INCLUDE ANY MATERIAL FROM A HYBRID PRODUCED FROM TWO VARIETY SEEDS, ORIGINALLY, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					

0091-0045

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variation during reproduction and multiplication and state how these variants may be identified.

18b. Give a summary of the variety's distinctive. Clearly state how the applicant variety may be distinguished from all other varieties in the same way. If the new variety is similar to one variety or a group of related varieties:
(1) identify these varieties and state of differences objectively;
(2) include statistical data for characters measured numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens (or photographs) (prints) of seed and plant comparisons which clearly indicate distinctness.

18c. Exhibit C forms are available from the PPVO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

18d. Optional additional characteristics *and/or* photographs. Describe any additional characteristics that cannot be accurately covered in Exhibit C. Use subjective variables as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant disease resistance, etc.

18e. Section 5(2)(f) of the Act required applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PPVO.

19. If "Yes" is specified (need of this variety be said by variety name only, as a clone of certified seeds, the applicant may NOT reverse this affirmative declaration after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, applicant may change the choice. (See Regulations and Rules of Practice, Section 7.103).

20. See Sections 41, 42, and 43 of the Act and Section 67.5 of the regulations for paternity requirements.

21. See Section 5.5 of the Act for instructions on obtaining the benefit of an earlier U.S. date.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent))

11/01/2000, United States and Canada

NOTES: It is the responsibility of the applicant/owner to keep the PTO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/patent. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(a) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, ARS, USDA, Room 213, Building 205, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 804-6788.

Public reporting burden for this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Health, Education and Welfare, Information Collection Project, Washington, D.C. 20540.

[illegible]

641-43 IS SUBMITTED BY THE New York State Office of Information Services. For more information, call 641-43 or 641-43-1000. (The names for information and technology services are listed below.)

Exhibit A. Origin and Breeding History

Pedigree: PH05W/PH07D)XA0222X

20010245

Pioneer Line PH6WG, *Zea mays* L., a dent-like corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PH05W (Certificate No. 9700212) X PH07D (FVP Certificate No. 9700214) using the pedigree method of plant breeding. Varieties PH05W and PH07D are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Selfing was practiced from the above hybrid for 6 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at Johnston, Iowa as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations again made for uniformity.

Variety PH6WG has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 5 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygosity and phenotypic stability. The line has been increased both by hand and in isolated fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and electrophoretically using sound lab molecular marker methodology.

No variant traits have been observed or are expected in PH6WG.

The criteria used in the selection of PH6WG were yield, both per se and in hybrid combinations; late season plant health, grain quality, stalk lodging resistance, and kernel size, especially important in production. Other selection criteria include: ability to germinate in adverse conditions; number of tillers, especially important in production because having numerous tillers increases hybrid production costs spent on detasseling; disease and insect resistance; pollen yield and tassel size.

Exhibit A: Developmental history for PH6WG

200106245

Season/Year Pedigree Grown	Inbreeding Level of Pedigree Grown
SUMMER, 1994: PH05W, PH07D	F0
WINTER, 1994: PH05W/PH07D	F1
SUMMER, 1995: PH05W/PH07D)X	F2
SUMMER, 1996: PH05W/PH07D)XA0	F3
SUMMER, 1997: PH05W/PH07D)XA02	F4
WINTER, 1997: PH05W/PH07D)XA022	F5
SUMMER, 1998: PH05W/PH07D)XA0222	F6
Seed PH05W/PH07D)XA0222X	F7

*PH6WG was selfed and ear-rowed from F3 through F6 generation.

#Uniformity and stability were established from F5 through F7 generation and beyond when seed supplies were increased.

2001.0245

Exhibit B. Novelty Statement

Variety PH6WG mostly resembles Pioneer Hi-Bred International, Inc. proprietary inbred line PH07D (PVP Certificate No. 9700214). Data are compiled from three environments, two in the Johnston, IA area and one in the Ankeny, IA area. The data in Table 1A and 1B are from t-tests collected in 1999 and 2000.

Variety PH6WG has a lower tassel axis floret density (11.8 florets/4cm vs 17.1 florets/4cm) than PH07D (Table 1A, 1B).

Variety PH6WG has fewer primary branches on the tassel (1.2 vs 4.3) than PH07D (Table 1A, 1B).

Variety PH6WG has a white cob color (1, white, 5Y91) vs a red cob color (3, red, 10R36) for PH07D (Figure 1A).

Exhibit B Novelty Statement Figures

Figure 1A. Images of cob color are supporting evidence for differences between PH6WG and PH07D.

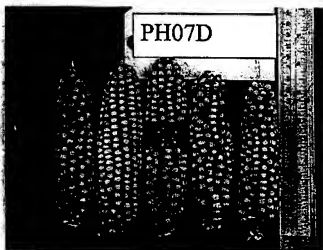
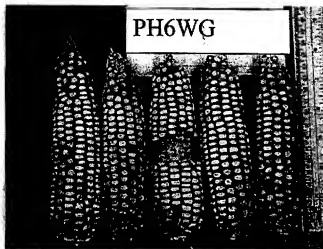


Table 1A. Data from 1999 and 2000 are supporting evidence for differences between PH6WG and PH07D. A t-test was performed and broken out by year.

TREAT	year	variety	COUNT	AREA	YIELD	WATER	SOCIAL	SOCIAL	SOCIAL	DE	Years	Prob.
			(# of trees)	(ha)	(kg/ha)	(mm)	INDEX	INDEX	INDEX	Pooled	pooled	(2-tail)
												Pooled
Irrigated main branch (# of branches)	1990	F-6HWG #H47D	18	16	12.1	14.3	-4.2	2.503	2.062	0.846	28	-4.5
Irrigated main branch (# of branches)	2000	F-6HWG #H47D	18	16	11.5	17.9	-8.5	2.134	2.314	0.551	28	-5.0
Irrigated primary branch (# of primary branches)	1990	F-6HWG #H47D	18	18	2.2	4.6	-2.7	1.373	1.685	0.355	28	-4.8
Irrigated primary branch (# of primary branches)	2000	F-6HWG #H47D	18	16	0.2	3.8	-3.8	0.661	1.207	0.145	28	-10.6

Table 1B. Summary data across years are unreporting evidence for differences between PF16WG and PF107D. A t-test was performed across years.

[illegible]

DEFINITIONS

20010245

In the description and examples, a number of terms are used herein. In order to provide a clear and consistent understanding of the specification and claims, including the scope to be given such terms, the following definitions are provided:

- ANT ROT = ANTHRACNOSE STALK ROT (*Colletotrichum graminicola*).
A 1 to 9 visual rating indicating the resistance to Anthracnose Stalk Rot. A higher score indicates a higher resistance.
- BAR PLT = BARREN PLANTS.
The percent of plants per plot that were not barren (lack ears).
- BRT STK = BRITTLE STALKS.
This is a measure of the stalk breakage near the time of pollination, and is an indication of whether a hybrid or inbred would snap or break near the time of flowering under severe winds. Data are presented as percentage of plants that did not snap.
- BU ACR = YIELD (BUSHEL/ACRE).
Yield of the grain at harvest in bushels per acre adjusted to 15.5% moisture.
- CLD TST = COLD TEST.
The percent of plants that germinate under cold test conditions.
- CLN = CORN LETHAL NECROSIS.
Synergistic interaction of maize chlorotic mottle virus (MCMV) in combination with either maize dwarf mosaic virus (MDMV-A or MDMV-B) or wheat streak mosaic virus (WSMV). A 1 to 9 visual rating indicating the resistance to Corn Lethal Necrosis. A higher score indicates a higher resistance.
- COM RST = COMMON RUST (*Puccinia sorgh*).
A 1 to 9 visual rating indicating the resistance to Common Rust. A higher score indicates a higher resistance.
- DIP ERS = DIPLODIA EAR MOLD SCORES (*Diplodia maydis* and *Diplodia macrospora*).
A 1 to 9 visual rating indicating the resistance to Diplodia Ear Mold. A higher score indicates a higher resistance.
- DRP EAR = DROPPED EARS.
A measure of the number of dropped ears per plot and represents the percentage of plants that did not drop ears prior to harvest.
- EAR HT = EAR HEIGHT.
The ear height is a measure from the ground to the highest placed developed ear node attachment and is measured in cm.
- EAR MLD = GENERAL EAR MOLD.
Visual rating (1-9 score) where a "1" is very susceptible and a "9" is very resistant. This is based on overall rating for ear mold of mature ears without determining the specific mold organism, and may not be predictive for a specific ear mold.
- EAR SZ = EAR SIZE.
A 1 to 9 visual rating of ear size. The higher the rating the larger the ear size.
- ECB 1LF = EUROPEAN CORN BORER FIRST GENERATION LEAF FEEDING (*Ostrinia nubilalis*).
A 1 to 9 visual rating indicating the resistance to preflowering leaf feeding by first generation European Corn Borer. A higher score indicates a higher resistance.
- ECB 2IT = EUROPEAN CORN BORER SECOND GENERATION INCHES OF TUNNELING (*Ostrinia nubilalis*).
Average inches of tunneling per plant in the stalk.
- ECB 2SC = EUROPEAN CORN BORER SECOND GENERATION (*Ostrinia nubilalis*).

- A 1 to 9 visual rating indicating post flowering degree of stalk breakage and other evidence of feeding by European Corn Borer, Second Generation: A higher score indicates a higher resistance.
- ECB DPE = EUROPEAN CORN BORER DROPPED EARS (*Ostrinia nubilalis*). Dropped ears due to European Corn Borer. Percentage of plants that did not drop ears under second generation corn borer infestation.
- EGRWTH = EARLY GROWTH. This is the visual rating (1 to 9) of the amount of vegetative growth after emergence at the seedling stage (approximately five leaves). A higher score indicates better vigor or early season growth.
- EST CNT = EARLY STAND COUNT. This is a measure of the stand establishment in the spring and represents the number of plants that emerge on per plot basis for the inbred or hybrid.
- EYE SPT = EYE SPOT (*Kabatiella zeae* or *Aureobasidium zeae*). A 1 to 9 visual rating indicating the resistance to Eye Spot. A higher score indicates a higher resistance.
- FUS ERS = FUSARIUM EAR ROT SCORE. (*Fusarium moniliforme* or *Fusarium subglutinans*). A 1 to 9 visual rating indicating the resistance to Fusarium ear rot. A higher score indicates a higher resistance.
- GDU = GROWING DEGREE UNITS. Using the Barger Heat Unit Theory, which assumes that maize growth occurs in the temperature range 50°F - 86°F and that temperatures outside this range slow down growth; the maximum daily heat unit accumulation is 36 and the minimum daily heat unit accumulation is 0. The seasonal accumulation of GDU is a major factor in determining maturity zones.
- GDU SHD = GDU TO SHED. The number of growing degree units (GDUs) or heat units required for an inbred line or hybrid to have approximately 50 percent of the plants shedding pollen and is measured from the time of planting. Growing degree units are calculated by the Barger Method, where the heat units for a 24-hour period are:
- $$GDU = (Max. Temp. + Min. Temp.) - 50/2$$
- The highest maximum temperature used is 86°F and the lowest minimum temperature used is 50°F. For each inbred or hybrid it takes a certain number of GDUs to reach various stages of plant development.
- GDU SLK = GDU TO SILK. The number of growing degree units required for an inbred line or hybrid to have approximately 50 percent of the plants with silk emergence from time of planting. Growing degree units are calculated by the Barger Method as given in GDU SHD definition.
- GIBERS = GIBBERELLA EAR ROT (PINK MOLD) (*Gibberella zeae*). A 1 to 9 visual rating indicating the resistance to Gibberella Ear Rot. A higher score indicates a higher resistance.
- GLF SPT = GRAY LEAF SPOT (*Cercospora zeae-maydis*). A 1 to 9 visual rating indicating the resistance to Gray Leaf Spot. A higher score indicates a higher resistance.
- GOS WLT = GOSS' WILT (*Corynebacterium nebraskense*). A 1 to 9 visual rating indicating the resistance to Goss' Wilt. A higher score indicates a higher resistance.

- 20010245
- GRN APP = GRAIN APPEARANCE.
This is a 1 to 9 rating for the general appearance of the shelled grain as it is harvested based on such factors as the color of harvested grain, any mold on the grain, and any cracked grain. High scores indicate good grain quality.
- HC BLT = HELMINTHOSPORIUM CARBONUM LEAF BLIGHT (*Helmintosporium carbonum*).
A 1 to 9 visual rating indicating the resistance to *Helmintosporium* infection. A higher score indicates a higher resistance.
- HD SMT = HEAD SMUT (*Sphacelotheca reiliana*).
This score indicates the percentage of plants not infected.
- KER KG = KERNELS PER KILOGRAM.
The number of kernels per 1 kilogram of seed after discard is removed.
- KSZ DCD = KERNEL SIZE DISCARD.
The percent of discard seed; calculated as the sum of discarded tip kernels and extra large kernels.
- MDM CPX = MAIZE DWARF MOSAIC COMPLEX (MDMV = Maize Dwarf Mosaic Virus and MCDV = Maize Chlorotic Dwarf Virus).
A 1 to 9 visual rating indicating the resistance to Maize Dwarf Mosaic Complex. A higher score indicates a higher resistance.
- MST = HARVEST MOISTURE.
The moisture is the actual percentage moisture of the grain at harvest.
- NLF BLT = NORTHERN LEAF BLIGHT (*Helmintosporium turcicum* or *Euxerothium turcicum*).
A 1 to 9 visual rating indicating the resistance to Northern Leaf Blight. A higher score indicates a higher resistance.
- PLT HT = PLANT HEIGHT.
This is a measure of the height of the plant from the ground to the tip of the tassel in cm.
- POL SC = POLLEN SCORE.
A 1 to 9 visual rating indicating the amount of pollen shed. The higher the score the more pollen shed.
- POL WT = POLLEN WEIGHT.
This is calculated by dry weight of tassels collected as shedding commences minus dry weight from similar tassels harvested after shedding is complete.
- PRM = PREDICTED RELATIVE MATURITY.
This trait, predicted relative maturity, is based on the harvest moisture of the grain. The relative maturity rating is based on a known set of checks and utilizes standard linear regression analyses and is also referred to as the Comparative Relative Maturity Rating System that is similar to the Minnesota Relative Maturity Rating System.
- PRM SHD = PREDICTED RELATIVE MATURITY GDU TO SHED.
A relative measure of the growing degree units (GDU) required to reach 50% pollen shed. Relative values are predicted values from the linear regression of observed GDUs on relative maturity of commercial checks.
- RT LDG = ROOT LODGING.
Root lodging is the percentage of plants that do not root lodge; plants that lean from the vertical axis at an approximately 30° angle or greater would be counted as root lodged.
- SCT GRN = SCATTER GRAIN.
A 1 to 9 visual rating indicating the amount of scatter grain (lack of pollination or kernel abortion) on the ear. The higher the score the less scatter grain.

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SRL IND	- SELECTION INDEX. The selection index gives a single measure of the hybrid's worth based on information for up to five traits. A maize breeder may utilize his or her own set of traits for the selection index. One of the traits that is almost always included is yield. When selection index data is presented, the tables represent the mean value averaged across testing stations.
SLF BLT	- SOUTHERN LEAF BLIGHT (<i>Helminthosporium maydis</i> or <i>Bipolaris maydis</i>). A 1 to 9 visual rating indicating the resistance to Southern Leaf Blight. A higher score indicates a higher resistance.
SOU RST	- SOUTHERN RUST (<i>Puccinia polysora</i>). A 1 to 9 visual rating indicating the resistance to Southern Rust. A higher score indicates a higher resistance.
STAGRN	- STAYGREEN. Staygreen is the measure of plant health near the time of black layer formation (physiological maturity). A high score indicates better late-season plant health.
STK CNT	- NUMBER OF PLANTS. This is the final stand or number of plants per plot.
STK LDG.	- STALK LODGING. This is the percentage of plants that did not stalk lodge (stalk breakage) as measured by either natural lodging or pushing the stalks and determining the percentage of plants that break below the ear.
STW WLT	- STEWART'S WILT (<i>Eriovata stewartii</i>). A 1 to 9 visual rating indicating the resistance to Stewart's Wilt. A higher score indicates a higher resistance.
TASBRN	- TASSEL BRANCHES. This is the number of primary tassel branches.
TAS SZ	- TASSEL SIZE. A 1 to 9 visual rating was used to indicate the relative size of the tassel. The higher the rating the larger the tassel.
TAS WT	- TASSEL WEIGHT. This is the average weight of a tassel (grams) just prior to pollen shed.
TEX EAR	- EAR TEXTURE. A 1 to 9 visual rating was used to indicate the relative hardness (smoothness of crown) of mature grain. A 1 would be very soft (extreme dent) while a 9 would be very hard (flinty or very smooth crown).
TILLER	- TILLERS. A count of the number of tillers per plot that could possibly shed pollen was taken. Data are given as a percentage of tillers: number of tillers per plot divided by number of plants per plot.
TST WT	- TEST WEIGHT (UNADJUSTED). The measure of the weight of the grain in pounds for a given volume (bushel).
YLD SC	- YIELD SCORE. A 1 to 9 visual rating was used to give a relative rating for yield based on plot ear piles. The higher the rating the greater visual yield appearance.

United States Department of Agriculture, Agricultural Marketing Service
Science Division, Plant Variety Protection Office
National Agricultural Library Building, Room 500
Beltsville, MD 20705

Objective Description of Variety
Corn (Zea mays L.)

Name of Applicant (s) Monter Hi-Bred International, Inc.		Variety Seed Source		Variety Name or Temporary Designation PH6W/G																															
Address (Street & No., or RFD No., City, State, Zip Code and Country) 7730 NW 62nd Avenue, P.O. Box 85, Clinton, Iowa 50131-0085				FOR OFFICIAL USE 4001 0245																															
				PVPO Number																															
<p>Indicate appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Eight justify whole numbers by adding leading zeros for an adequate variety description and must be completed. Traits designated by an "x" are considered</p> <p>1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26 (in combination with Munsell color code to describe all color choices: describe #25 and #26 in Comments section)</p> <table border="0"> <tr> <td>1-Green</td> <td>06-Pale Yellow</td> <td>11-Pink</td> <td>16-Pale Purple</td> <td>21-Buff</td> </tr> <tr> <td>2-Light Green</td> <td>07-Yellow</td> <td>12-Light Red</td> <td>17-Purple</td> <td>22-Tan</td> </tr> <tr> <td>3-Dark Green</td> <td>08-Yellow Orange</td> <td>13-Cherry Red</td> <td>18-Colorless</td> <td>23-Brown</td> </tr> <tr> <td>4-Dark Green</td> <td>09-Green</td> <td>14-Red</td> <td>19-White</td> <td>24-Brown</td> </tr> <tr> <td>5-Yellow</td> <td>10-Pink-Orange</td> <td>15-Red & White</td> <td>20-White Cupped</td> <td>25-Variagated (Describe)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>26-Other (Describe)</td> </tr> </table>						1-Green	06-Pale Yellow	11-Pink	16-Pale Purple	21-Buff	2-Light Green	07-Yellow	12-Light Red	17-Purple	22-Tan	3-Dark Green	08-Yellow Orange	13-Cherry Red	18-Colorless	23-Brown	4-Dark Green	09-Green	14-Red	19-White	24-Brown	5-Yellow	10-Pink-Orange	15-Red & White	20-White Cupped	25-Variagated (Describe)					26-Other (Describe)
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				26-Other (Describe)																															
<p>ADDITIONAL CHOICES</p> <p>Indicate most similar (in background and maturity) of these to make comparisons based on grow-out trial data:</p> <table border="0"> <tr> <td> <p>Dark Purple:</p> <p>Monsters</p> <p>CM105, A632, B44, B48</p> <p>R77, B76, H84</p> <p>N192, A670, B73, NC268</p> <p>Mo17, Vx102, Vx33, A682</p> <p>A619, M871, R99, Vx26</p> <p>W64A, A354, A654, P991</p> </td> <td> <p>Yellow Dent (Unleveled):</p> <p>Ca109, ND246,</p> <p>OR7, T232,</p> <p>W117, W1538,</p> <p>W182N</p> <p>White Dent:</p> <p>C266, R105, K2228</p> </td> <td> <p>Sweet Corn:</p> <p>C13, Iowa5125, P99, 2132</p> <p>Popcorn:</p> <p>SG1533, 4722, HP301, HP7211</p> <p>Popcorn:</p> <p>Mo15W, Mo16W, Mo24W</p> </td> </tr> </table>						<p>Dark Purple:</p> <p>Monsters</p> <p>CM105, A632, B44, B48</p> <p>R77, B76, H84</p> <p>N192, A670, B73, NC268</p> <p>Mo17, Vx102, Vx33, A682</p> <p>A619, M871, R99, Vx26</p> <p>W64A, A354, A654, P991</p>	<p>Yellow Dent (Unleveled):</p> <p>Ca109, ND246,</p> <p>OR7, T232,</p> <p>W117, W1538,</p> <p>W182N</p> <p>White Dent:</p> <p>C266, R105, K2228</p>	<p>Sweet Corn:</p> <p>C13, Iowa5125, P99, 2132</p> <p>Popcorn:</p> <p>SG1533, 4722, HP301, HP7211</p> <p>Popcorn:</p> <p>Mo15W, Mo16W, Mo24W</p>																											
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500: 0245

EXHIBIT C: PHDWG

1. TYPE: (describe intermediate types in Comments section):		Standard Variety Name
2 1=Sweet 2=Dist 3=Flint 4=Flour 5=Pop 6=Ornamental		PA81
2. REGION WHERE DEVELOPED IN THE U.S.A.:		Standard Seed Source
2 1=Northwest 2=Northcentral 3=Northeast 4=Southeast 5=Southcentral 6=Southwest 7=Other <u>Central Corn Belt</u>		AMES 19325
3. MATURITY (in Region of Best Adaptability; show Heat Unit formula in "Comments" section)		DAYS HEAT UNITS
DAYS HEAT UNITS		
074 1,418.8 From emergence to 50% of plants in silk		079 1,518.0
077 1,475.3 From emergence to 50% of plants in pollen		077 1,498.8
083 0,987.8 From 10% to 50% pollen shed		084 0,987.2
From 50% silk to optimum edible quality		
From 50% silk to harvest at 25% moisture		
4. PLANT:		Standard Sample
		Deviation Size
227.8 cm Plant Height (to tassel tip)		231.3 14.02 08
078.0 cm Ear Height (to base of top ear node)		089.7 15.82 08
017.4 cm Length of Top Ear Internode		018.4 01.31 08
0.0 Average Number of Tillers		0.0 00.01 08
0.0 Average Number of Ears per Stalk		1.0 00.14 08
1 Anthracnose of Brace Roots: 1=Absent 2=Faint 3=Moderate 4=Dark 5=Very Dark		2
5. LEAF:		Standard Sample
		Deviation Size
88.8 cm Width of Ear Node Leaf		10.2 08.38 08
83.7 cm Length of Ear Node Leaf		87.8 08.71 08
06 Number of leaves above top ear		06 00.32 08
32 Degrees Leaf Angle (measured from 2nd leaf above ear at anthode to stalk above Node)		28 05.88 08
02 Leaf Color (Munsell code) 7,8073		02 5074
1 Leaf Sheath Pubescence (Rate on scale from 1=none to 5=like peach fuzz)		1
Marginal Waxes (Rate on scale from 1=none to 5=heavy)		
Longitudinal Crosses (Rate on scale from 1=none to 5=heavy)		
6. TASSEL:		Standard Sample
		Deviation Size
01 Number of Primary Lateral Branches		11 01.82 08
18 Branch Angle from Central Spine		41 04.31 08
58.4 cm Tassel Length (from top leaf collar to tassel tip)		60.7 01.84 08
1 Pollen Shed (rate on scale from 0=none sterile to 5=heavy shed)		6
07 Anther Color (Munsell code) 5YR 5.5		01 2,8078
01 Glume Color (Munsell code) 80Y 5.5		01 5074
1 Bar Glumes (Glume Banding: 1=Absent 2=Present)		1

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Application Variety Data			PH6WG	Page 2	Standard Variety Data		
7a. EAR (Unhusked Data):							
01	58R Color (3 days after emergence) (Munsell code)	2.5GY 8		07	2.5GY 8		
01	Fresh Husk Color (25 days after 50% silking) (Munsell code)	5GY 8		02	5GY 8		
21	Dry Husk Color (65 days after 50% silking) (Munsell code)	5Y 8		21	2.5Y 8		
2	Position of Ear at Dry Husk Stage: 1= Upright 2= Horizontal 3= Pendant			2			
6	Husk Tightness (Rate of Scale from 1=very loose to 9=very tight)			6			
2	Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)			2			
7b. EAR (Husked Ear Data):							
	Standard	Sample		Standard	Sample		
	Deviation	Size		Deviation	Size		
16.2	cm Ear Length	00.75	06	15.2	00.68	06	
40.3	mm Ear Diameter at mid-point	01.21	06	38.7	01.03	06	
115.8	gm Ear Weight	13.88	06	85.8	16.38	06	
14	Number of Kernel Rows	00.41	06	15.8	00.75	06	
2	Kernel Rows: 1=Indistinct 2=Distinct			2			
1	Row Alignment: 1=Straight 2=Slightly Curved 3=Sciral			1			
14.0	cm Shank Length	01.55	06	08.8	00.80	06	
2	Ear Taper: 1=Slight 2= Average 3=Extreme			2			
8. KERNEL (Dried)							
	Standard	Sample		Standard	Sample		
	Deviation	Size		Deviation	Size		
19.7	mm Kernel Length	00.52	06	09.2	00.52	06	
07.8	mm Kernel Width	00.41	06	07.8	00.58	06	
06.8	mm Kernel Thickness	00.41	06	05.0	00.00	06	
02.0	% Round Kernels (Shape Grade)	04.58	06	02.0	18.88	06	
1	Aleurone Color Pattern: 1=Homozygous 2=Segregating			1			
02	Aleurone Color (Munsell code)	10Y 10.4		02	2.5Y 10.2		
02	Hard Endosperm Color (Munsell code)	10Y 10.2		02	10Y 10.2		
03	Endosperm Type: 1=Sweet (Bt1) 2=Extra Sweet (Bt2) 3=Normal Starch 4=High Amylose Starch 5=Waxy Starch 6=High Protein 7=High Lysine 8=Super Sweet (ss) 9=High Oil 10=Other			2			
27.3	gm Weight per 100 Kernels (analyzed sample)	01.97	06	25.88	00.32	06	
9. COB:							
	Standard	Sample		Standard	Sample		
	Deviation	Size		Deviation	Size		
22.8	mm Cob Diameter at mid-point	00.98	06	23.5	01.05	06	
19	Cob Color (Munsell code)	5Y 8		14	100Y 8		

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19. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic):

A. Leaf Blights, Wilt, and Local Infection

- | | | |
|---|--|---|
| 5 | Anthraxnose Leaf Blight (<i>Colletotrichum graminicola</i>) | 5 |
| | Common Rust (<i>Puccinia sorghi</i>) | |
| | Common Smut (<i>Ustilago maydis</i>) | |
| | Eyebrot (<i>Colletotrichum zeae</i>) | |
| | Goss's Wilt (<i>Clostridium michiganense</i> spp. <i>Hebrakense</i>) | |
| 5 | Gray Leaf Spot (<i>Centroporia zea-maydis</i>) | 5 |
| | Helmintosporium Leaf Spot (<i>Stipitella zeicola</i>) Race | |
| 5 | Northern Leaf Blight (<i>Eleusine indica</i>) Race | 5 |
| 6 | Southern Leaf Blight (<i>Stipitella maydis</i>) Race | 5 |
| | Southern Rust (<i>Puccinia</i>) | |
| 5 | Stewart's Wilt (<i>Erwinia stewartii</i>) | 7 |
| | Other (Specify) | |

B. Systemic

- | | | |
|---|--|---|
| | Corn Lethal Necrosis (MLMV and MDNV) | |
| 8 | Wheat Streak (<i>Syntherisma robusta</i>) | 8 |
| | Maize Chlorotic Dwarf Virus (MCDV) | |
| | Maize Chlorotic Mottle Virus (MCMV) | |
| 4 | Maize Dwarf Mosaic Virus (MDMV) | 3 |
| | Sorghum Dwarf Mosaic of Corn (<i>Peronosclerospora sorghi</i>) | |
| | Other (Specify) | |

C. Stem Rot

- | | | |
|---|--|---|
| 4 | Anthraxnose Stem Rot (<i>Colletotrichum graminicola</i>) | 5 |
| | Diplodia Stem Rot (<i>Stenomyces maydis</i>) | |
| | Fusarium Stem Rot (<i>Fusarium moniliforme</i>) | |
| | Gibberella Stem Rot (<i>Gibberella zeae</i>) | |
| | Other (Specify) | |

D. Ear and Kernel

- | | | |
|---|--|---|
| | Aspergillus Ear and Kernel Rot (<i>Aspergillus flavus</i>) | |
| 5 | Diplodia Ear Rot (<i>Stenomyces maydis</i>) | 5 |
| 3 | Fusarium Ear and Kernel Rot (<i>Fusarium moniliforme</i>) | 3 |
| | Gibberella Ear Rot (<i>Gibberella zeae</i>) | |
| | Other (Specify) | |

Application Variety Data

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11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested):

	Banks grass Mite (<i>Oligonychus pratensis</i>)	
	Corn Worm (<i>Helioverpa zea</i>)	
	Leaf Feeding	
	Stk Feeding	
	mg larval wt.	
	Ear Damage	
	Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>)	
	Corn Sap Beetle (<i>Carpophilus dimidiatus</i>)	
	European Corn Borer (<i>Pyrausta nubilalis</i>)	
Z	1st Generation (Typically Whole Leaf Feeding)	5
Q	2nd Generation (Typically Leaf Sheath-Collar Feeding)	4
	Stalk Tunneling	
	on harvested plant	
	Fall Armyworm (<i>Spodoptera frugiperda</i>)	
	Leaf Feeding	
	Stk Feeding	
	mg larval wt.	
	Maize Weevil (<i>Sitophilus zeamais</i>)	
	Northern Rootworm (<i>Diatraea barthol</i>)	
	Southern Rootworm (<i>Diatraea undecimpunctata</i>)	
	Southern Corn Borer (<i>Diatraea grandiosella</i>)	
	Leaf Feeding	
	Stk Tunneling	
	on harvested plant	
	Two-spotted Spider Mite (<i>Tetranychus urticae</i>)	
	Western Rootworm (<i>Diatraea virginea virginea</i>)	
	Other (Specify)	
12. AGRONOMIC TRAITS:		
8	Staygreen (at 65 days after anthesis) (Rate on a scale from 1=worst to 9=excellent)	8
9.0	% Dropped Ears (at 65 days after anthesis)	9.0
	% Pre-anthesis Ear Shattering	
	% Pre-anthesis Root Lodging	
11.8	Post-anthesis Root Lodging (at 65 days after anthesis)	0.5
9.980.8	Kg/ha Yield of Inbred Per Se (at 1213% grain maturity)	2.657.8

13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied);

1 isozymes

2 RFLP's

3 RAPD's

COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):

Application Variety Data

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CLARIFICATION OF DATA IN EXHIBITS B AND C

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Please note the data presented in Exhibit C, "Objective Description of Variety," are collected primarily at Johnston and Ankeny, Iowa. The data in Exhibit B are from comparisons of inbreds grown in the same tests in the selected growing area of PH6WG and in Johnston and Ankeny, IA. The data in Tables 1A and 1B are from paired comparison t-tests collected in Johnston and Ankeny, IA. These traits collectively show distinct differences between the two varieties.

The data collected in exhibit C was collected in 2000 for page 1 and 2. There were 3 different planting dates planted for these trials. There are environmental factors that differ from planting date to planting date. Environmental temperature and precipitation differences during the vegetative and grain fill periods can impact plant and grain traits, and are a source of variability. The environmental conditions described above could result in larger standard deviations. The variation associated with environment to environment is normally higher than the variation associated within locations.

The information for the standard inbred variety is based on paired comparison information. Therefore, the locations and years included depend on whether both the standard inbred variety and the variety to be PVP'd are grown together. For some varieties there are more years or locations of paired data available. This results in some differences between the description of the standard inbred variety between applications.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Plant Variety Act of 1974 (5 U.S.C. 552a) and the Plant Variety Protection Act (PVPA) of 1955.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2321). Information is held confidential until certificate is issued (7 U.S.C. 2438).

1. NAME OF APPLICANT(S) PIONEER HI-BRED INTERNATIONAL, INC.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME PH6WG
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 7301 NW 62nd AVENUE P.O. BOX 85 JOHNSTON, IA 50131-0085	5. TELEPHONE (include area code) 515-270-4051	6. FAX (include area code) 515-253-2125
7. PVPO NUMBER 2001 0045		

Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain: ☒ YES ☐ NO

Is the applicant (individual or company) a U.S. national or U.S. based company? ☒ YES ☐ NO

Is the variety the original owner? ☒ YES ☐ NO If no, please answer one of the following:

Original rights to variety were owned by individual(s), is/are the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

Original rights to variety were owned by a company(ies), is/are the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

Information on ownership (if needed, use reverse for extra space):

Variety is owned by Pioneer Hi-Bred International, Inc.

NOTES:

Any exception can be afforded only to owners (not licensees) who meet one of the following criteria:

1. The rights in the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If rights in the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See section 41(a)(2) of the Plant Variety Protection Act for definition.

Required by the Plant Variety Protection Act of 1955, no persons are required to respond to a collection of information unless it displays a valid OMB control number. This valid OMB control number for this collection is 0550-0046. The time required to complete this information collection is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Send comments regarding this collection of information to Washington Headquarters Service, Paperwork Project Director (0550-0046), U.S. Government Printing Office, Washington, DC 20540.

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U.S. Department of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-243-6340 (voice) or (202) 726-1127 (TDD). USDA is an equal opportunity organization.

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